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## PATENT ABSTRACTS OF JAPAN

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<p>(30) Priority:</p> <p>(43) Date of application publication: 03.12.96</p> <p>(84) Designated contracting states:</p>	<p>(71) Applicant: HITACHI CABLE LTD</p> <p>(72) Inventor: ASANO HIDEKI ANDO YOSHIYUKI SATO AKIRA ABE TOMIYA OKABE MASAHIRO KONISHI SHIRO</p> <p>(74) Representative:</p>
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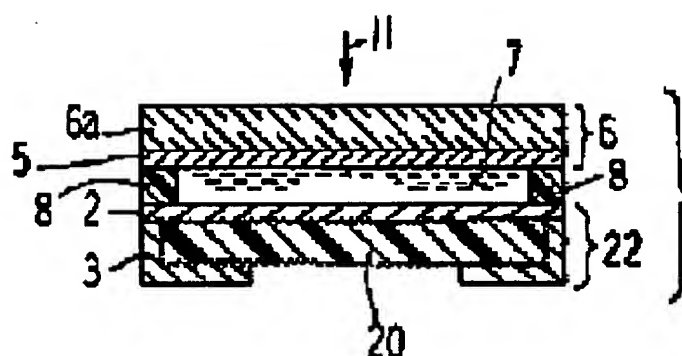
**(54) REFLECTIVE  
ELECTRODE SUBSTRATE  
AND REFLECTION TYPE  
LIQUID CRYSTAL DISPLAY  
ELEMENT**

(57) Abstract:

**PURPOSE:** To provide a reflective electrode substrate which is small in size and light in weight and with which the man-hours for production are decreased by using a planar molding subjected to uniform and fine roughening of its surface as an electrode substrate to be arranged on a rear side.

**CONSTITUTION:** The planar molding 20 subjected to uniform and fine roughening of its surface is used as the electrode substrate 22 on the rear side of a pair of the electrode substrates 6, 22 used for a reflection type liquid crystal display element 21, by which external light 11 is

uniformly diffused and reflected at the roughened surface of the planar molding 20 of the electrode substrate 22. Namely, the roughened surface of the planar molding 20 acts as a reflection plate, by which the external light 11 entering from the front side of the display element 21 is transmitted through liquid crystals 7 and is then reflected by the roughened surface and is again transmitted through the liquid crystals and is emitted from the front side of the display element 21. In other words, this element is constituted by integrating the liquid crystal-enclosed cell and the reflection plate. The need for arranging a reflection film on the rear side of the cell and forming a light shielding layer and a reflection film like heretofore is eliminated and the man-hours are correspondingly decreased. The size and weight are thus reduced.



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